



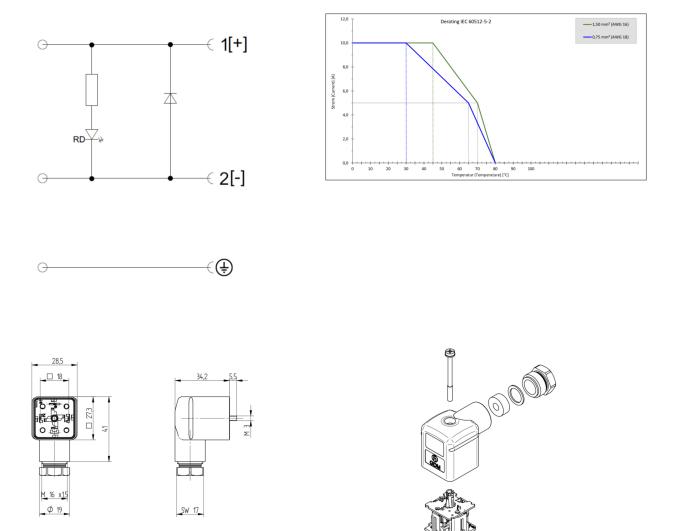
## Product: <u>GDM21F9-D2C-10D</u> ☑

GDM Standard - Field Attachable Female, Form A, Contacts: 2+PE, with Recovery Diode (FRD) and RD LED, 24 V | 10 A, IP65; Tranluscent PG9 Housing; Steel Center Screw, Bulk Packaging

#### **Product Description**

175301-803-A (DIN 43650-A): Field Attachable Female, Form A, Contacts: 2+PE, with Recovery Diode (FRD) and Red LED, 24 V | 10 A, IP65; Tranluscent PG9 Housing; Steel Center Screw, Bulk Packaging

#### **Technical Drawing**



#### **Technical Data**

Product Family:Valve ConnectorsProduct Sub Family:GDM StandardBrand:HirschmannConnector Type:Field AttachableType of Contact / Gender:Field AttachableConnector Design:AngledNumber of Pins:Parle (E across cable outlet)Coding:ACoding:AContact Yope:Valve GraveSteidding:Contal ScrewRated Voltage:A/VRated Inpulse Voltage:A/VVoltage:A/VRated Inpulse Voltage:A/VStandard ScrewScrewRated Inpulse Voltage:A/VOrdard ScrewScrewRated Inpulse Voltage:A/VAndore ScrewScrewRated Corrent**NoStatale Resistance:Sin On/NInsulation Resistance:Sin On/NStatale Resistance:Sin On/NConductor Cross Section:Sic S-15 mm²Statabe Cables:Ø-SStatabe Cables:Ø-SStatabe Cables:Ø-SProtect Dagerer / IP Ratify:IPSProtect Dagerer / IP Ratify:IPSPolution Engres:IPSPolution Engres:IPS NORGAE-1 (VDE 0110-1)Corrent Creepage Diston:IPS NORGAE-1 (VDE 0110-1)Corrent Creep			
BradiHischmanConector Type:Field AttachableConector Segin:FinaleConector Design:AlgedNumber of Pins:SPE (PE across cable outlet)Coding:ASheidelin:InshiededSheidelin:Sender Secolar Seco	Product Family:	Valve Connectors	
AndConnector SpeiFindameConnector SpeiAgleConnector SpeinAgleNumber of PinsAPE (PE across cable outlet)Coding:AShidking:InshieldedShidking:ShidkingAttachmen Type:Contral ScrewRaded Voltage:AVAttachment Type:AVShidking:Avit (PCBA 2.0 kV)Raded Voltage:AVAttachment Type:AVShidking:Avit (PCBA 2.0 kV)Raded Notage:AVAttachment Type:Avit (PCBA 2.0 kV)Raded Notage:Avit (PCBA 2.0 kV)Shidking:Avit (PCBA 2.0 kV)Shidking:Avit (PCBA 2.0 kV)National Resistance:Avit (PCBA 2.0 kV)Shidking ColoneSin (PC A.C. RESISTING)Attack Cortens:Sin (PC A.C. RESISTING)Shidking ColoneSin	Product Sub Family:	GDM Standard	
Type of Condct / Gender:FendeConnector Design:AjeleNumber of Pins:2+PE (PE across cable outlet)Coding:AShielding:NubledShielding:VinbleddeAtachmen Type:0Atachmen Type:4/VRade Voltage:4/VRade Voltage:4/VContact Resistance:10AContact Resistance:10ANubled Colonce:5/0Nubled Colonce:5/0Stability Science:9/0Conduct Cross Section:6/0Science:0.4Science:0.4Science:0.4Science:5/0Science:0.5Science: <td< td=""><td>Brand:</td><td colspan="2">Hirschmann</td></td<>	Brand:	Hirschmann	
Connector Design:AngledNumber of Pins:2+PE (PE across cable outlet)Coding:AShielding:UnbieldedAttachment Type:Contral ScrewRaded Voltage:4/VRaded Voltage:0.kV (PCBA 2.0 kV)Operating Voltage:0.kV (PCBA 2.0 kV)Contact Resistance:10.ANumber of Pins:10.ANumber of Voltage:10.AContact Resistance:10.PNumber of Pins:50.PContact Resistance:9.9Contact Resistance:0.9Contact Resistance:0.9Stability Operation:5.0Stability Operation:0.9Contact Resistance:0.9Contact Resistance:0.9Stability Operation:0.9Stability Operation:0.9Conductor Cross Section:0.5Stability Contaction:0.5Orductor Cross Section:0.5Orductor Degree / IP Rating:IPSPolution Degree:0.NEN 1503-0.054.0400Polution Degree:Din En 1503-0.054.0101-01Corduct Crosspape Distance:Din En 60664.1 (2008/01); VDE 0110-1	Connector Type:	Field Attachable	
Number of Pins:2+PE (PE across cable outlet)Coding:ACoding:InsiledidedShielding:UnsiledidedAttachment Type:Central ScrewRated Voltage:24 VRated Voltage:4.0kV (PCBA 2.0 kV)Operating Voltage:24 V DCRated Current*:10 AContact Resistance:5.10mOnInsulation Resistance:5.0Yoe Of Connection:5.0Conduct Orsos Section:0.9Operating Voltage:0.9Conduct Cross Section:0.5.15mm*Suitable Cables:0.5.15mm*Suitable Cables:0.5.15mm*Shitable Cables:0.5.15mm*Soltable Cabl	Type of Contact / Gender:	Female	
Coding:ACoding:UnshieldedAttachment Type:Central ScrewRated Voltage:24 VRated Joulage Voltage:40 kV (PCBA 2.0 kV)Operating Voltage:24 VDCRated Current*:10 AContac Resistance:10 nohmInsulation Resistance:50Yope of Connection:50Conduct Or Coss Section:05-15 nm*Suitable Cables:04.5 nm*Ambient Temperature (Operating Voltage):05-15 nm*Protection Degree / IP Rating*:165Portection Degree / IP Rating*:105Polution Degree:0000001; VDE 0110-11Cierance / Creepage Distance:0000001; VDE 0110-1	Connector Design:	Angled	
Shielding:UnshieldedAttachment Type:Central ScrewRaded Voltage:24 VRaded Inpulse Voltage:0.0 KV (PCBA 2.0 KV)Operating Voltage:24 V DCRaded Current*:0.4 A0 A3.0 MContact Resistance:10.4Insulation Resistance:>10.9 OnmMating Cycles:5.07 per of Connection:Screw, M3X35Conduct Cross Section:0.5 1.5 mm²Anbient Temperature (Operature)9.6 CAnbient Temperature (Operature)9.6 CProtection Degree / IP Rating*196Potention Degree / IP Rating*19.6 NIN STOAL ROSAL	Number of Pins:	2+PE (PE across cable outlet)	
Attachment Type:Central ScrewRated Voltage:4VRated Impulse Voltage:40 kV (PCBA 2.0 kV)Operating Voltage:40 kV (PCBA 2.0 kV)Rated Current*:04Ondact Resistance:10 nOhmInsulation Resistance:>10*9 OhmMating Cycles:50Type of Connection:Screw, M3x35Conduct Orcos Section:0.5 1.5 nm*Suitable Cables:2.5 0.5 nm*Ambient Temperature (Operature)F65Protection Degree / IP Rating*:F65Design Standard:NEN 175301-803.4. ISO 4400Polution Degree:3ac. to DIN EN 60664.1 (VDE 0110-1)Cierance / Creepage Distance:IN EN 60664.1 (VDE 0110-1)	Coding:	A	
Rad Voltage:24 VRade Impulse Voltage:4.0 kV (PCBA 2.0 kV)Operating Voltage:24 V DCRade Current*:10 AContact Resistance:5.0 mOnInsulation Resistance:>10*9 OhmMating Cycles:5.0Type of Connection:6.0Conductor Cross Section:0.5 - 1.5 mm²Suitable Cables:0.5 - 1.5 mm²Anbient Temperature (Operation):9.6 CPrefetor Degree // P Rating*:10.5 CPolution Degree:0.5 NENTSO160401Polution Degree:0.5 NENTSO160401Contact Cross Definition:0.5 NENTSO160401Polution Degree:0.5 NENTSO160504100Polution Degree:0.5 NENTSO160504101501001Corance / Croepage Distance:0.5 NENTSO1601011; VDE 0110-1	Shielding:	Unshielded	
Rated Impulse Voltage:4.0 kV (PCBA 2.0 kV)Operating Voltage:24 V DCRated Current*:10.4Contact Resistance:3.0 nOhmInsulation Resistance:>10.9 OhmMating Cycles:>50Zype of Connection:Scow, M3x35Conduct Cross Section:0.5 - 1.5 ma <sup>2</sup> Suitable Cables:0.4 - 5.9 maAnbient Temperature (Operation):Sco <sup>5</sup> C + 80° CPretection Degree / IP Rating*:IPSPolution Degree:0.5 non Scott (VDE 0110-1)Clearance / Croepage Distance:IN EN 60664.1 (2008/01); VDE 1110-1	Attachment Type:	Central Screw	
Operating Voltage:24 V DCRated Current*:10 AContact Resistance:> 10 mOhmInsulation Resistance:> 10^9 OhmMating Cycles:> 50Yop of Connection:Scow, M3x35Cable Gland:PG9Conductor Cross Section:0.25 - 15 mm²Suitable Cables:04.5 - 9 mmAmbient Temperature (Operations):25° C - +80°CProtection Degree / IP Rations*:PG5Polution Degree:0.15 NITSO1-803-A, ISO 4400Polution Degree:IN EN 06664-1 (VDE 0110-1)Clearance / Creepage Distance:IN EN 06664-1 (2080/1); VDE 0110-1	Rated Voltage:	24 V	
Rated Current*10 ARated Current*10 AContact Resistance:<10 nOhm	Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)	
Contact Resistance:Solonact Resistance:> 10°9 OhmInsulation Resistance:> 10°9 OhmMating Cycles:< 50	Operating Voltage:	24 V DC	
InstantionFormationInsulation Resistance:> 10*9 OhmMating Cycles:≤ 50Type of Connection:Screw, M3x35Cable Gland:PG9Conductor Cross Section:0.25 - 1.5 mm²Suitable Cables:Ø 4.5 - 9 mmAmbient Temperature (Operation):25° C + 80°CProtection Degree / IP Rations*IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree:3 acc. to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 60664-1 (2080/01); VDE 0110-1	Rated Current*:	10 A	
Adding Cycles:     Solution       Mating Cycles:     ≤ 50       Type of Connection:     Scew, M3x35       Cable Gland:     PG9       Conductor Cross Section:     0.25 1.5 mm²       Suitable Cables:     Ø4.5 - 9 mm       Ambient Temperature (Operature):     Sc °c + 80 °C       Protection Degree / IP Rating:     IP65       Design Standard:     DIN EN 175301-803-A, ISO 4400       Pollution Degree:     Sacc to DIN EN 60664-1 (VDE 0110-1)       Clearance / Creepage Distance:     DIN EN 60664-1 (2008/01); VDE 0110-1	Contact Resistance:	≤ 10 mOhm	
Type of Connection:Screw, M3x35Cable Gland:PG9Conductor Cross Section:0.25 - 1.5 mm²Suitable Cables:0.4.5 - 9 mmAmbient Temperature (Operation)*-25 °C - +80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree.3 acc. to DIN EN 6064-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 6064-1 (2008/01); VDE 0110-1	Insulation Resistance:	> 10^9 Ohm	
Cable Gland:PG9Conductor Cross Section:0.25 - 1.5 mm²Suitable Cables:04.5 - 9 mmAmbient Temperature (Operation):-25 °C - +80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree.3 acc. to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 60664-1 (2008/01); VDE 0110-1	Mating Cycles:	≤ 50	
ActionActionConductor Cross Section:0.25 · 1.5 mm²Suitable Cables:Ø 4.5 · 9 mmAmbient Temperature (Operation)*-25 °C · +80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree:3 acc. to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 60664-1 (2008/01); VDE 0110-1	Type of Connection:	Screw, M3x35	
Suitable Cables: Ø 4.5 - 9 mm   Ambient Temperature (Operation)* -25 °C - +80 °C   Protection Degree / IP Rating**: IP65   Design Standard: DIN EN 175301-803-A, ISO 4400   Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)   Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Cable Gland:	PG9	
Ambient Temperature (Operation)*   -25 °C - +80 °C     Protection Degree / IP Rating**:   IP65     Design Standard:   DIN EN 175301-803-A, ISO 4400     Pollution Degree:   3 acc. to DIN EN 60664-1 (VDE 0110-1)     Clearance / Creepage Distance:   DIN EN 60664-1 (2008/01); VDE 0110-1	Conductor Cross Section:	0.25 - 1.5 mm <sup>2</sup>	
Protection Degree / IP Rating**: IP65   Design Standard: DIN EN 175301-803-A, ISO 4400   Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)   Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Suitable Cables:	Ø 4.5 - 9 mm	
Design Standard:     DIN EN 175301-803-A, ISO 4400       Pollution Degree:     3 acc. to DIN EN 60664-1 (VDE 0110-1)       Clearance / Creepage Distance:     DIN EN 60664-1 (2008/01); VDE 0110-1	Ambient Temperature (Operation)*:	-25 °C - +80 °C	
Pollution Degree:     3 acc. to DIN EN 60664-1 (VDE 0110-1)       Clearance / Creepage Distance:     DIN EN 60664-1 (2008/01); VDE 0110-1	Protection Degree / IP Rating**:	IP65	
Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Design Standard:	DIN EN 175301-803-A, ISO 4400	
	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)	
Overvoltage Category: III acc. to DIN EN 60664-1 (VDE 0110-1)	Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1	
	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)	

#### **Materials**

Contact Base Material:	CuZn
Contact Plating:	Cu/Sn
Contact Bearer Material:	PA GF
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 HB
Housing Material:	PA GF
Housing Color:	Translucent
Flammability Class (Housing):	UL 94 HB
Cable Gland Material:	PA GF
Cable Gland Gasket:	NBR
Cable Gland Color:	Black
Attachment Material:	Steel, Philips combi slot
Gasket Material:	Sold separately

#### **Protection Circuitry**

Function Indicator:	Red LED
Protective Circuit:	Diode

#### Additional Technical Data

Fastening Torque (Contact Screw):	(40-50) Ncm for conductor size 0.25 - 1.5 mm <sup>2</sup> ; (30-40) Ncm for conductor size 0.34 mm <sup>2</sup> ; (25-30) Ncm for conductor size 0.25	
Fastening Torque (Cable Gland):	(150-200) Ncm	
Fastening Torque (Attachment):	(50-60) Ncm	

### Approvals

VDE:	Yes
SEV:	Yes

#### Safety & Environmental Compliance

RoHS Compliant: Yes		
Notes		
Note Derating:	Notice derating	
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	
Note: Do not connect or disconnect under load.		

#### Variants

Item #	Item Description	Packaging
934888965	GDM21F9-D2C-10D	D - Collect packaging 50 pieces, assembled

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